



Technology Insertion Program for Savings (TIPS) Overview

Objective:

- Transitions applicable commercial off-the-shelf solutions and late-stage development technologies into DoN acquisition programs to significantly reduce operations and maintenance support costs
 - Stridge gap between S&T and Acquisition until Program of Record can fund the completion of the technology insertion

Program Criteria:

- Addresses a Navy or USMC need
- Increases cost efficiency in maintenance, training, or logistics
 - Must have a positive ROI
- Requires no more than \$2M TIPS funding
- Technology can transition in 24 months or less
- Technology Maturity (TRL): Starting: ≥6 Ending: ≥8
- Technology has program and fiscal support (OPNAV / HQMC P&R)
- Solution can be supported by Navy/USMC infrastructure and policy

Funding (\$K):

	FY14	FY15	FY16	FY17
Pres Bud 15 (Actual)	8,436	8,480	18,632	19,867



Organizational Placement

Director of Technology
DDOT
(Dr. Killion)

Future Naval Capabilities (Mike Meyers)

FNC

Disruptive Technologies (Bob Smith)

- INPs
- LA-CNR
- RIF *
- S2F
- TS
- NWE

INP = Innovative Naval Prototypes • OA

LA = Leap Ahead Chief of Naval Research

RIF = Rapid Innovation Fund (Non S&T funded)

S2F= Speed to Fleet

TS= Tech Solutions

NWE= Naval Warfare Experimentation

OA = Operational Analysis

Affordability Initiatives (John Carney)

- MANTECH
- TIPS
- T2
- DPSI
- FCT

SBIR/STTR (Vacant)

- SBIR
- STTR

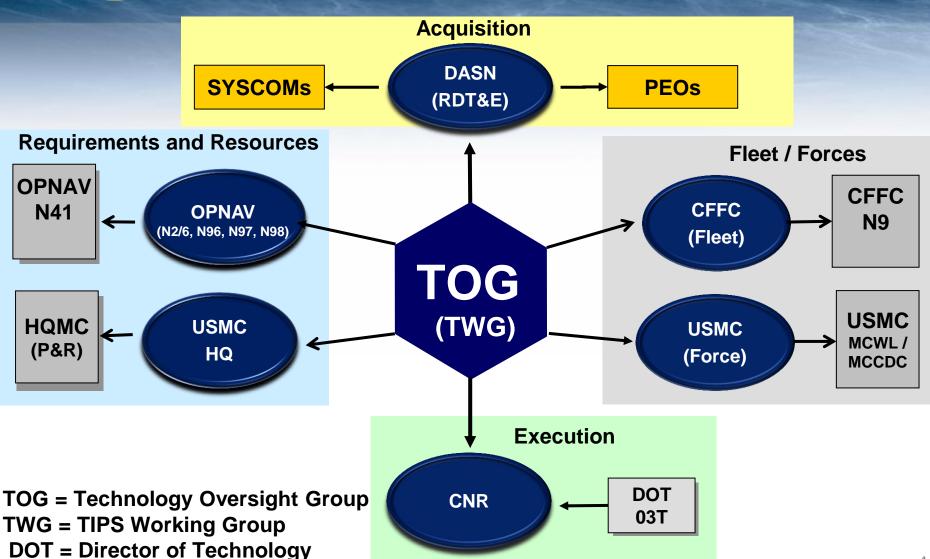
TIPS = Technology Insertion Program for Savings
T2 = Navy Technology Transfer
DPSI = Domestic Preparedness Support Initiative
FCT = Foreign Comparative Test
MANTECH= Manufacturing Technology
SBIR = Small Business Innovation Research
STTR = Small Business Technology Transfer

S&T Funding

NON S&T Funding









TIPS FY16 Proposal Selection Process Timeline

- 1. ONR's Call Letter to SYSCOMs
- 2. SYSCOMs Proposal Development / Internal Reviews
- 3. SYSCOMs submit proposals to ONR
- 4. 1st Down Selection by TWG
- 5. Red Team Reviews
- 6. 2nd Down Selection by TWG for Ranking Consideration
- 7. Submit Individual Rankings for Consolidation
- 8. Prioritize Proposals for Ranking Recommendations
- 9. ONR's Director of Technology (DOT) Approval
- 10. MOAs Signed by PEO / Resource Officer / ONR 03T
- 11. Spend Plan Preparation and Submittal
- 12. FY16 Funding Issued
- 13. Projects Begin Executing

1 Aug 2014

Aug-Oct 2014

30 Oct 2014

Early Dec 2014

1-28 Feb 2015

Late Mar 2015

Late Apr 2015

Late Apr 2015

Early May 2015

May-Aug 2015

Early Sep 2015

Oct 2015

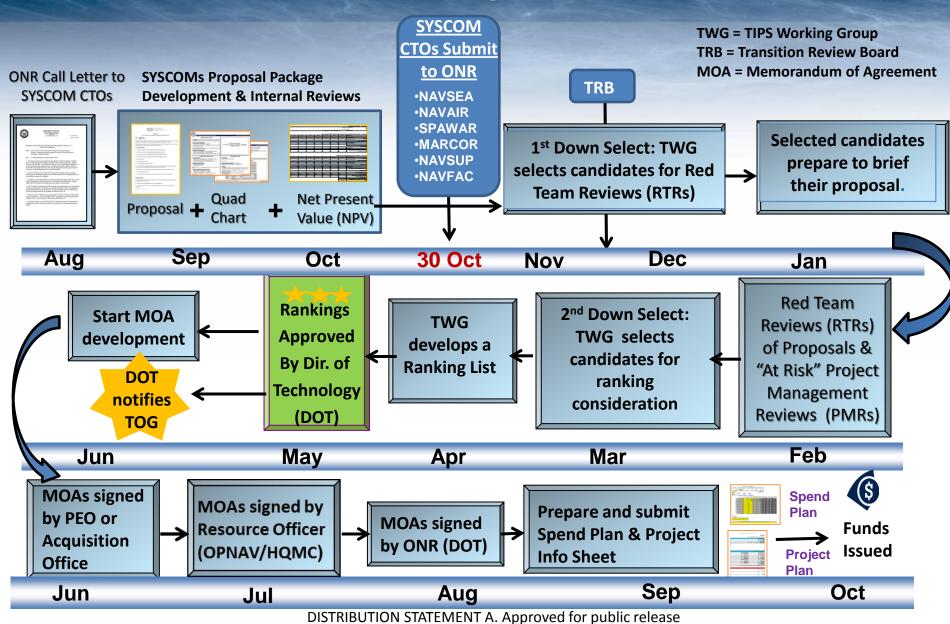
TOG Technology Oversight Group

TWG TIPS Working Group

- TWG Participation with Science Advisor (SA) Inputs
- SYSCOM (Submitter) Participation
- TWG, SAs & SYSCOM (Submitter) Participation



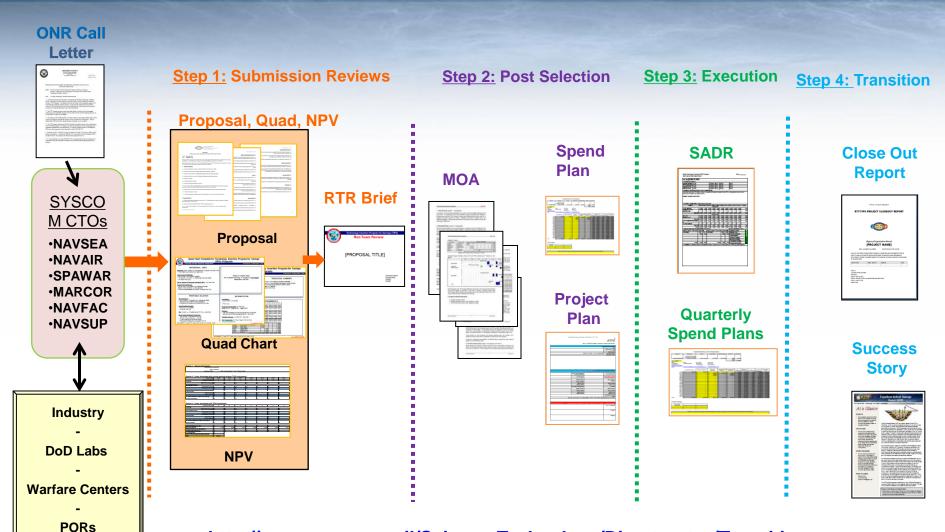
Roadmap for FY16 TIPS Reviews & Selection Processes





TIPS Process Document Trail

(Submission, Post Selection, Execution, & Transition)



http://www.onr.navy.mil/Science-Technology/Directorates/Transition



SYSCOM POCs for TIPS

NAVSEA: Steve Southard <u>Steven.southard@navy.mil</u>

NAVAIR: Todd Parcel <u>john.parcell@navy.mil</u>

<u>SPAWAR:</u> Dr. Bob Parker <u>robert.parker@navy.mil</u>

NAVFAC: Phil Vitale <u>philip.vitale@navy.mil</u>

NAVSUP: Mark Deebel <u>mark.deebel@navy.mil</u>

MARCOR: John Stroud <u>john.m.stroud@usmc.mil</u>



TIPS Contractor Support Team

Prime Contractor:

American Technology Solutions International (ATSI) Corp.

Transition Coordinators:

TIPS APM/NAVFAC/

NAVSUP: Calvin Reddick <u>calvin.reddick@atsi.co</u>

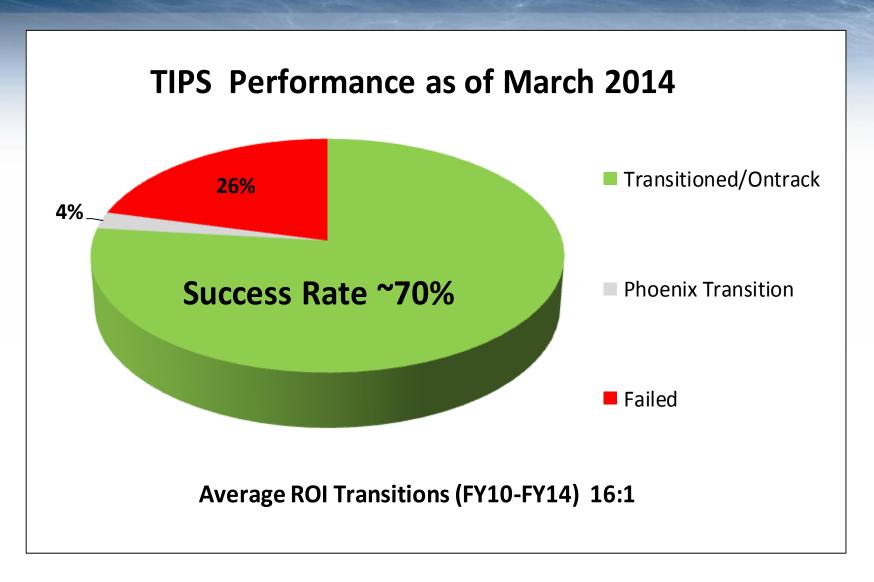
NAVSEA: Joe Piff <u>jpiff@mcri.com</u>

NAVAIR/MARCOR: Allan Orr <u>aorr@mcri.com</u>

SPAWAR: Patrick Mulvihill <u>patrick.mulvihill.ctr@navy.mil</u>



TIPS Performance Metrics



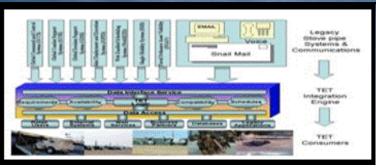


Areas of Opportunity for Reducing Costs to DoN

- Replace older near obsolete components with more reliable and less expensive components
- Improve operational & repair processes to increase mean time between failures that will reduce time spent with repairs.
- Test new materials & protective coatings that reduce rust, corrosion and maintenance costs due to corrosive damage to components and platforms
- Automate processes to improve performance
- Increase human and environmental safety factors
- Improve quality of life for our warfighters

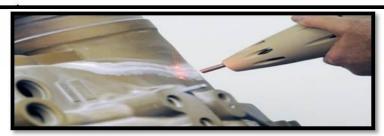


Success Stories



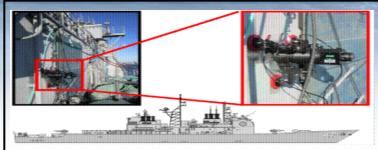
Transportation Exploitation Tool (TET)

Will enable NAVSUP GLS to reduce the planning cycle time required to identify, assess, coordinate, and execute transportation opportunities to accommodate critical delivery timelines. Cost Savings/Avoidance> \$77m through 2020



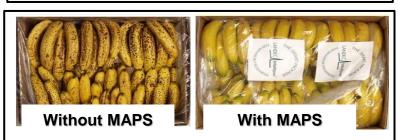
H-1 Combining Gearbox Chaffing Repair via Cold Spray

Cold Spray repairs chafing damage on the combining Gearbox external housing extending the life vice having to be scrapped and replaced at significant cost. Cost Savings/Avoidance > \$18M through 2020



Naval Superstructure Cracking Due to Aluminum Sensitization

Will reduce cost by streamlining maintenance decisions associated with aluminum crack repair. Cost Savings/Avoidance > \$76m through 2018.



Modified Atmosphere Packaging System (MAPS)

Extend service life of fresh fruit and vegetables aboard US Navy ships. Cost Savings/Avoidance > \$3m through 2016





DEPARTMENT OF THE NAVY

OFFICE OF THE CHIEF OF NAVAL OPERATIONS COMMANDANT FOR MISSION SUPPORT (20593-7243) 2000 NAVY PENTAGON WASHINGTON, DC 20350-2000

OPNAV NA Ser N4

4600

IN REPLY REFER TO 4600 Ser/

MAY 2 0 2013

JOINT LETTER

From: Deputy Chief of Naval Operations, Fleet Readiness and

Deputy Commandant, Mission Support, USCG Deputy Commandant, Installations and Logistics

Chief of Naval Research

Subj: OFFICE OF NAVAL RESEARCH (ONR) SUPPORT OF TRANSPORTATION EXPLOITATION TOOL (TET) DEVELOPMENT

- 1. During the most recent Naval Logistics Integration Service Logistics Chiefs Board, we were briefed on the status of TET development by Naval Supply Systems Command Global Logistics Support, Norfolk. The brief highlighted ONR's support for the initiative.
- 2. In this time of diminishing fiscal resources, we continually look for new and innovative ways to improve efficiencies and effectiveness. Since 2010, use of the TET program to identify underutilized transportation opportunities has resulted in more than \$27M in documented cost avoidances, a tremendous accomplishment highlighting ONR's efforts paying dividends. Expansion of the TET user base and full implementation of the tool will undoubtedly result in even larger cost avoidance opportunities and increase transportation effectiveness. The future of TET is bright.
- 3. These impressive transportation results wouldn't be possible without ONR's sizeable investment and commitment to fund and develop TET. Thank you for your support, we ardently recommend continued

Philip Cullom VADM USN

DCNO (FR&L)

Copy to: NAVSUP DMCS DC I&L





Transportation Exploitation Tool (TET)

Greg Butler
NAVSUP WSS
Division Director
Fleet Movement & Systems Support
4 Feb 2015



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www.navalengineers.org

DISTRIBUTION STATEMENT A. Approved for public release

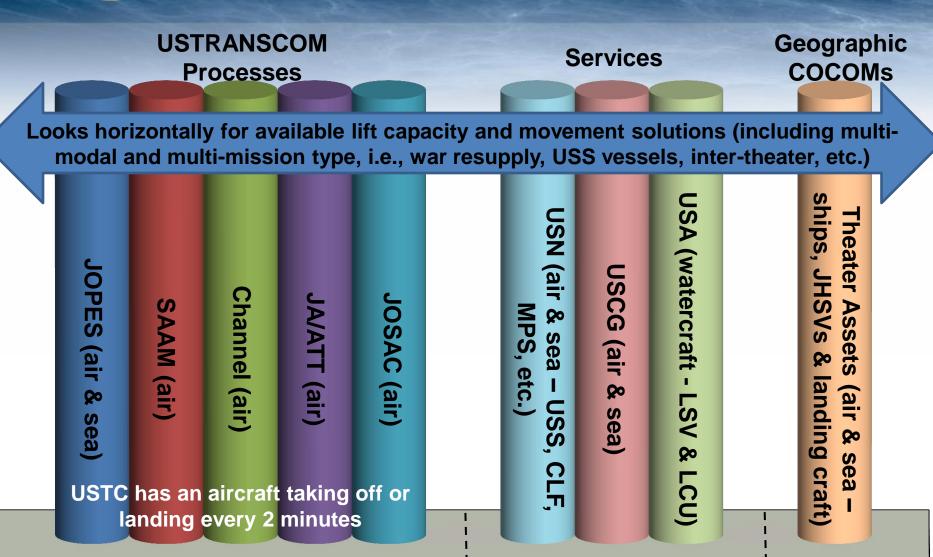


Foundation, Function & Impact

- SECNAV Naval Logistics Integration Initiative
- Sponsorship from 3-star naval Service Log Chiefs
- SECRET and UNCLASSIFIED
- First-ever Kayak©-like capability in DoD
- Connects unrelated flight and ship schedules
- Solves urgent and complex transportation problems
- Creates conveyance and cost efficiencies
- \$41.5M in cost avoidance / 388% ROI



Why TET is Successful



We don't care why the conveyance is moving, only that we can see it



Enabling Success Through TIPS

- ONR TIPS Program (x 2)
 - Critical to initial TET dev and mission accomplishment
 - Professional, reliable and focused on success
 - TIPS I:
 - Delivered first-ever UNCLASSIFIED PoR
 - Live USTRANSCOM aircraft scheduling data

- TIPS II:

- Enhanced SECRET transportation analysis: Web Services,
 Cloud enabling, Intelligent Agents
- Reducing planning days/weeks to seconds/minutes



TET Path Forward

- Establish SECRET TET as NAVSUP PoR in FY15
- Nominated for TIPS III (Dynamic Replanning)
- Continue adding game-changing capabilities
- Stay ahead of change -- TIPS is <u>CRITICAL</u>
 - Sequestration and budget reductions
 - Demand signal (increasing)
 - Environment (Pivot to Pacific, Islamic State, Ebola, etc.)



DEMO



Transportation Exploitation Tool (TET) (Cont...)

Q&A